

TITLE

NANOPARTICLE FRACTIONATION AND SIZE DETERMINATION

ABSTRACT

A novel method for fractionating stabilized, water-soluble nanoparticles based upon the size of the nanoparticles was discovered. For stabilized, charged, water-soluble nanoparticles, the method comprises the addition of a substantially water-miscible organic solvent to an aqueous nanoparticle solution in the presence of an electrolyte. Moreover, a method for determining the average particle size of stabilized, charged, water-soluble nanoparticles using gel electrophoresis was discovered.

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SNF/dmm